

ATMOSPHERIC EQUIVALENT TEMPERATURE ANALYSIS

Applicants: Stilianos G. Roussis and Barbara J. Shannon

Attorney Docket No. CJB-0109

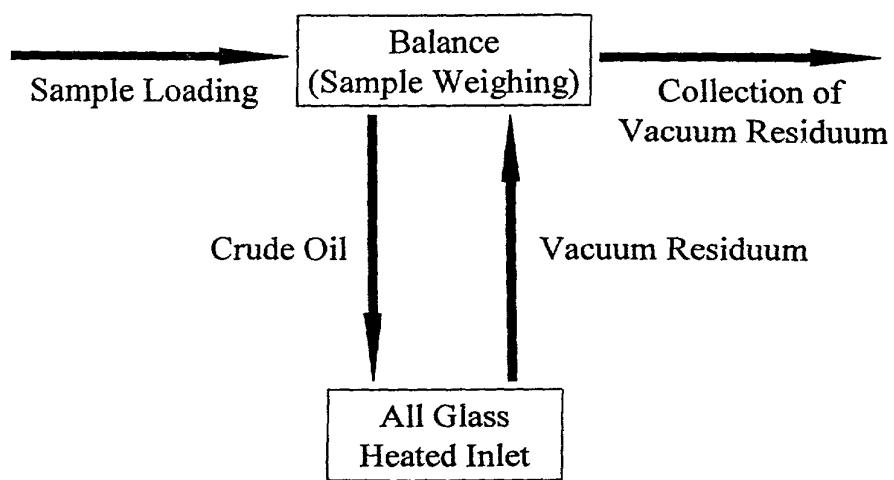


FIG. 1

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## CALIBRATION

- Select set of crudes with known distillation curves
- Establish constant subambient pressure for apparatus
- Determine weight percent yields at different process temperatures for set of crudes
- Construct weight percent yield plot versus process temperature for set of crudes
- Determine the AET which corresponds to the process temperature under process pressure conditions for set of crudes

## VACUUM RESIDUUM COLLECTION

- Set process temperature and pressure as determined in CALIBRATION procedure
- Validate the stability of the apparatus with Quality Control (QC) samples
- Repeat CALIBRATION procedure if required, based on QC data
- Collect crude oil residuum

**FIG. 2**

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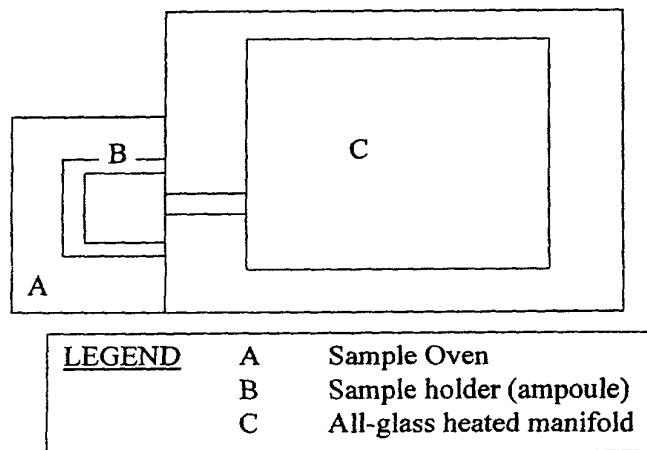


FIG. 3

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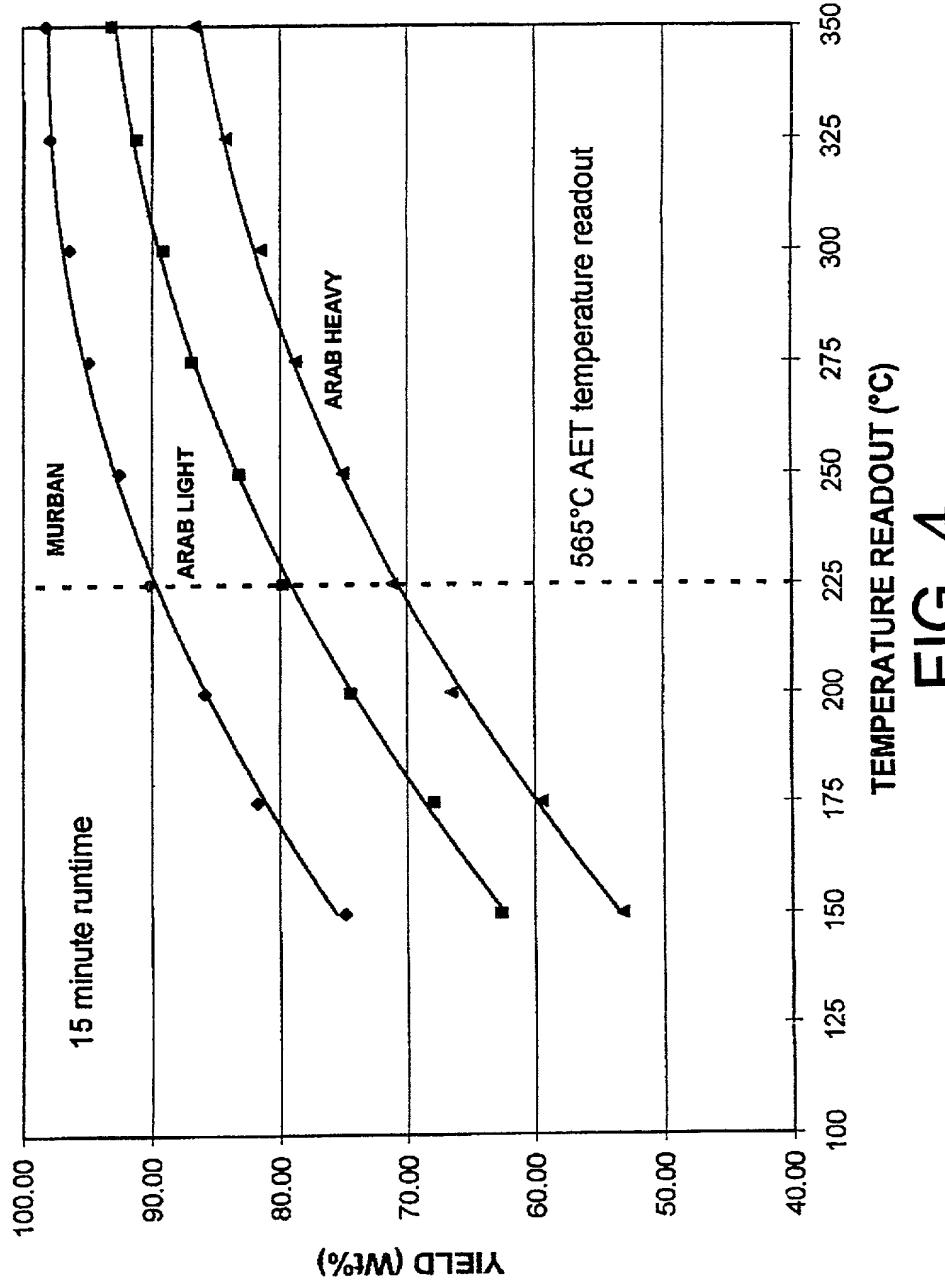


FIG. 4

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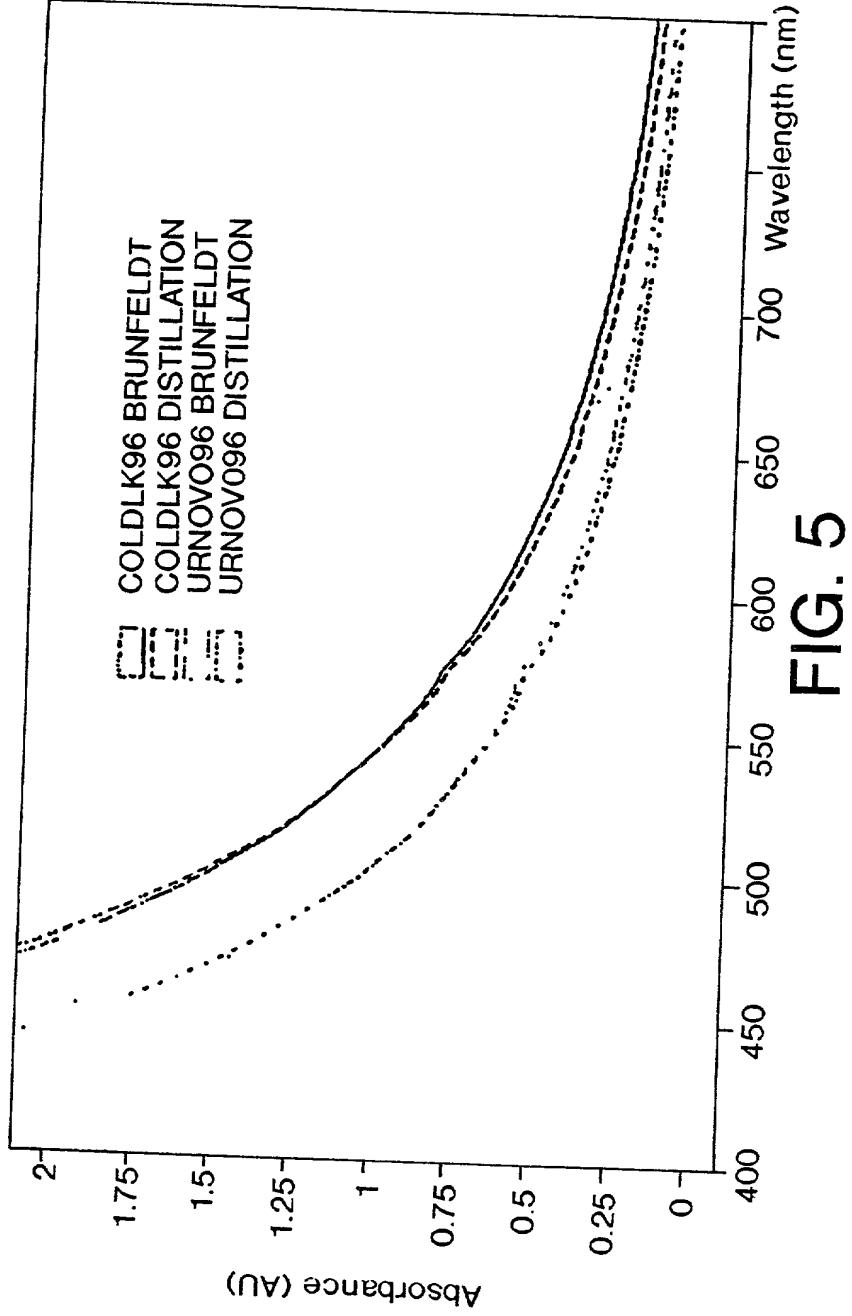


FIG. 5

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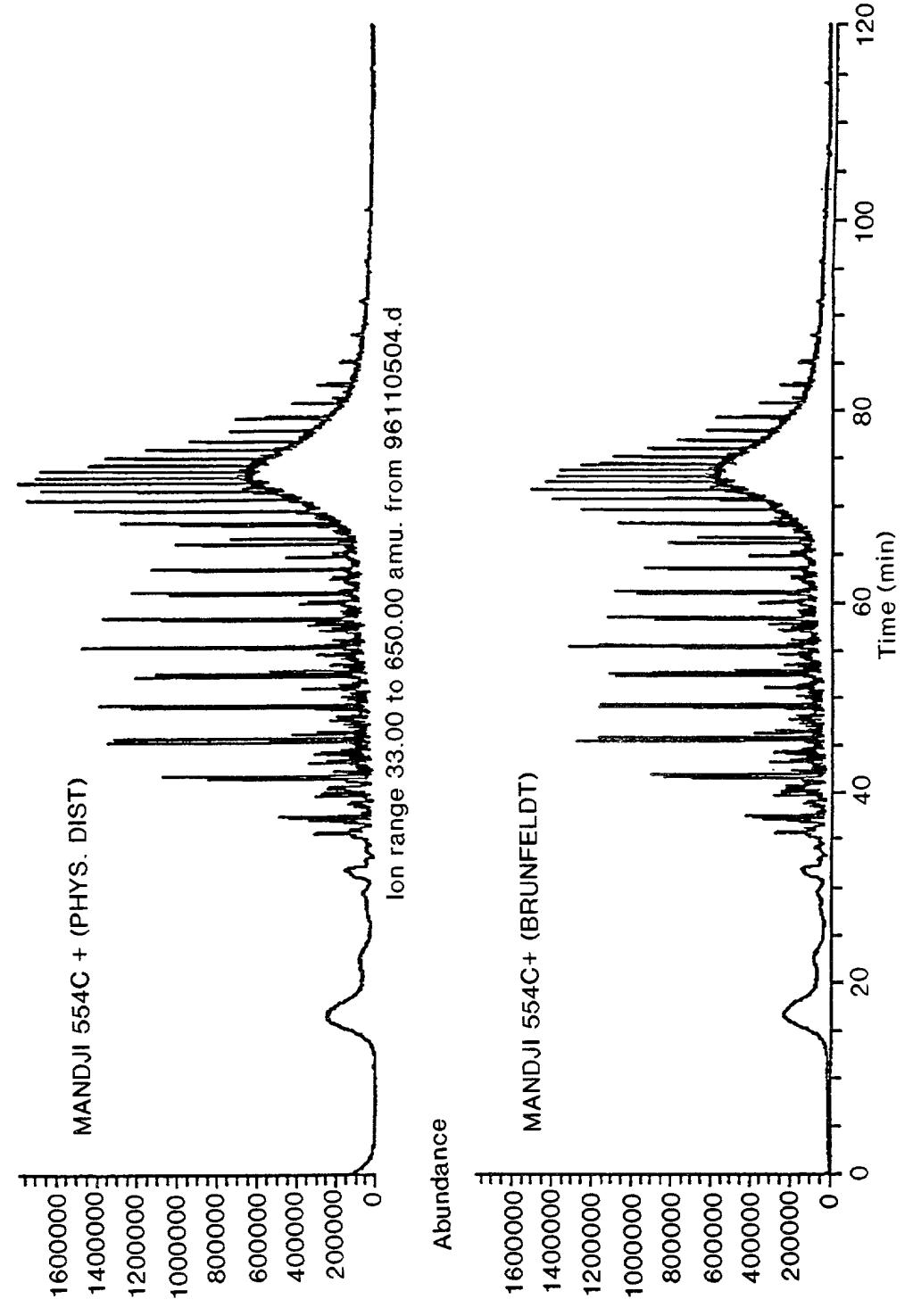


FIG. 6